Performance Data Sheet

RGA5460BXN

General Information

Model	RGA5460BXN	**Refrigerant**	R-410A
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	2820	2440					
	Watts	349	371					
	Amps	2.02	2.06					
	Lb/h	26.4	27.0					
-10	Btu/h	3150	2750	2470				
	Watts	362	387	413				
	Amps	2.04	2.09	2.20				
	Lb/h	31.9	32.0	32.5				
-5	Btu/h	3510	3110	2810	2600			
	Watts	374	400	430	461			
	Amps	2.05	2.13	2.24	2.40			
	Lb/h	37.4	37.1	37.1	37.6			
0	Btu/h	3920	3510	3190	2950	2760		
	Watts	383	412	444	478	514		
	Amps	2.07	2.15	2.28	2.45	2.65		
	Lb/h	43.2	42.5	42.0	42.0	42.6		
5	Btu/h	4380	3950	3610	3340	3120		
	Watts	389	421	455	492	532		
	Amps	2.08	2.18	2.32	2.50	2.71		
	Lb/h	49.1	48.0	47.2	46.7	46.6		
10	Btu/h	4890	4430	4070	3770	3510	3260	2980
	Watts	394	428	465	505	548	593	639
	Amps	2.08	2.20	2.35	2.54	2.76	3.02	3.32
	Lb/h	55.2	53.9	52.7	51.7	51.1	51.2	51.9
15	Btu/h	5440	4960	4570	4240	3940	3650	3330
	Watts	395	432	472	515	561	610	661
	Amps	2.07	2.21	2.38	2.58	2.81	3.08	3.38
	Lb/h	61.7	60.1	58.6	57.2	56.1	55.5	55.6
20	Btu/h	6050	5530	5110	4740	4410	4070	3700
	Watts	394	434	477	523	573	625	680
	Amps	2.06	2.21	2.40	2.61	2.86	3.13	3.44
	Lb/h	68.5	66.7	64.9	63.1	61.6	60.5	59.9

25	Btu/h	6710	6160	5690	5290	4910	4520	4100
	Watts	391	433	479	529	582	639	698
	Amps	2.04	2.21	2.41	2.64	2.90	3.18	3.49
	Lb/h	75.8	73.8	71.7	69.6	67.6	66.0	64.9
30	Btu/h	7420	6830	6330	5880	5450	5010	4530
	Watts	385	429	479	532	589	650	713
	Amps	2.01	2.20	2.42	2.66	2.93	3.22	3.54
	Lb/h	83.4	81.3	79.0	76.6	74.3	72.2	70.5
35	Btu/h	8180	7560	7010	6510	6020	5530	5000
	Watts	376	423	476	533	593	658	726
	Amps	1.97	2.18	2.41	2.67	2.95	3.26	3.59
	Lb/h	91.6	89.4	86.9	84.2	81.6	79.1	76.9
40	Btu/h	9010	8330	7730	7180	6640	6090	5490
	Watts	364	415	470	531	596	664	736
	Amps	1.92	2.15	2.40	2.67	2.97	3.28	3.62
	Lb/h	100	98.1	95.4	92.6	89.6	86.7	84.1
45	Btu/h	9890	9160	8510	7900	7300	6690	6020
	Watts	350	403	462	526	595	668	745
	Amps	1.86	2.11	2.37	2.66	2.97	3.30	3.65
	Lb/h	110	107	105	102	98.4	95.1	92.1
50	Btu/h	10800	10100	9340	8670	8010	7330	6590
	Watts	333	389	452	519	592	669	751
	Amps	1.78	2.05	2.34	2.65	2.97	3.31	3.67
	Lb/h	120	117	115	111	108	104	101
55	Btu/h	11800	11000	10200	9490	8760	8010	7200
	Watts	312	372	438	510	586	668	754
	Amps	1.69	1.98	2.29	2.62	2.95	3.31	3.68
	Lb/h	130	128	125	122	118	115	111

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.458826E+04	2.994508E+02	2.879013E+00	3.856633E+01
C2	8.838632E+01	-1.435384E-02	-3.785631E-02	1.128488E+00
C3	-2.508531E+02	-1.106125E+00	-2.728871E-02	3.671173E-01
C4	1.550392E+00	-6.045343E-02	-2.042355E-04	-2.379425E-03
C5	2.578136E-01	-4.744609E-03	6.756972E-04	7.064066E-03
C6	1.871051E+00	3.238447E-02	2.196468E-04	-6.047704E-03
C7	1.965582E-03	-6.592127E-05	-1.123706E-06	6.534665E-05
C8	-7.809341E-03	1.536797E-04	1.282349E-06	8.077187E-05
C9	-3.458440E-03	3.065585E-04	-2.193384E-06	-8.315955E-05
C10	-5.019686E-03	-6.906452E-05	-6.589740E-08	2.721088E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature